



University of Pretoria Yearbook 2018

Spatial analysis 320 (GIS 320)

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| Qualification | Undergraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 22.00 |
| Programmes | BSc Information and Knowledge Systems BSc Chemistry BSc Environmental Sciences BSc Geography BSc Geoinformatics BSc Geology BSc Meteorology |
| Service modules | Faculty of Engineering, Built Environment and Information Technology |
| Prerequisites | GIS 310 or TDH |
| Contact time | 1 practical per week, 3 lectures per week |
| Language of tuition | Module is presented in English |
| Department | Geography Geoinformatics and Meteorology |
| Period of presentation | Semester 2 |

Module content

Construction of Raster Geovisualisations, spatial model construction and use, multi-criteria decision analysis. Factor analysis: Principle component analysis. Geostatistics: Spatial dependence modelling, ordinary kriging. Markov chains and cellular Automata, combined models.

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