



University of Pretoria Yearbook 2016

Spatial analysis 320 (GIS 320)

Qualification Undergraduate

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

Module credits 24.00

Programmes [BSc Information Technology Information and Knowledge Systems](#)

[BSc Applied Mathematics](#)

[BSc Environmental and Engineering Geology](#)

[BSc Environmental Sciences](#)

[BSc Geography](#)

[BSc Geoinformatics](#)

[BSc Geology](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

[BSc Meteorology](#)

[BSc Physics](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites GIS 310 or TDH

Contact time 2 lectures per week, 1 practical per week

Language of tuition English

Academic organisation Geography, Geoinf + Meteor

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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