

University of Pretoria Yearbook 2019

Spatial analysis 320 (GIS 320)

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 permission from the HOD.

Contact time 1 practical per week, 2 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. A project or assignment of at least 64 notional hours.

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