

# University of Pretoria Yearbook 2018

## 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 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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