

# University of Pretoria Yearbook 2017

## Geographic data analysis 220 (GIS 220)

**Qualification** Undergraduate

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

**Module credits** 14.00

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

[BSc Chemistry](#)

[BSc Engineering and Environmental Geology](#)

[BSc Environmental Sciences](#)

[BSc Geography](#)

[BSc Geoinformatics](#)

[BSc Geology](#)

[BSc Meteorology](#)

[BSc Physics](#)

[BSc Plant Science](#)

**Service modules** Faculty of Engineering, Built Environment and Information Technology

**Prerequisites** GMC 100 AND (STK 110 OR BME120)

**Contact time** 1 practical per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Academic organisation** Geography, Geoinf + Meteor

**Period of presentation** Semester 2

### Module content

The nature of geographical data and measurement. Application of statistics in the geographical domain. Probability, probability distributions and densities, expected values and variances, Central Limit theorem. Sampling techniques. Exploratory data analysis, descriptive statistics, statistical estimation, hypothesis testing, correlation analysis and regression analysis.

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