

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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